# SYSTEM FOR MANAGING A USER PROFILE IN A RADIOCOMMUNICATION SYSTEM.

#### **OBJECT OF THE INVENTION**

The present invention relates to a radiocommunication system and, more particularly, to a method and system for managing information of different profiles for a same subscriber portable telephone terminal.

### STATE OF THE ART

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A subscriber to a radiocommunication system has the facility to define various operating modes for his mobile terminal. Said operating modes or subscriber profiles are stored in a base position register of the radiocommunication system.

The radiocommunication system has administration means for carrying out the allocation of a determined subscriber profile for a geographical location of the subscriber terminal. The allocation of a determined subscriber profile is carried out on the basis of the geographical location where the subscriber terminal is situated.

Consequently, the mobile terminal has means for communicating its geographical position (namely latitude, longitude and altitude) to the administration means. As a function of said geographical position, the administration means allocates to the mobile terminal the subscriber profile corresponding to the geographical location of the subscriber terminal.

A state of the art solution that describes a radiocommunication system the coverage area of which is divided into various cells and that permits changing of subscriber profile is known from U.S. Patent No. 5,568,153 to Bélieau, included in this patent application through reference.

This radiocommunication system has a base position register in which are stored geographical coordinates of base positions for the subscriber and has means for defining personal areas of base positions centred on the base positions of the subscriber.

The system also has means for determining the current geographical position of the subscriber, for the purpose of determining whether the current geographical position of the subscriber is situated within a defined personal area of base positions.

The system has means for establishing the characteristic parameters of

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the service used by the subscriber within a personal area of base positions determined by the geographical location, and means for establishing the characteristic parameters of the service when the subscriber is outside the personal area of base positions.

The state of the art mentioned has, among others, the drawbacks that the subscriber profile is associated with the geographical location of the subscriber terminal and is not related with the technical characteristics of the subscriber terminal.

As a result, in the event of breakdown of the geographical location system, the radiocommunication system is unable to offer the adequate subscriber profile associated with the current geographical location of the mobile subscriber terminal and, consequently, the subscriber is unable to make use of the subscriber profile defined for said geographical location.

It is therefore necessary to develop a method for managing the subscriber profiles of the users based on the technical characteristics and on programming capability of the subscriber terminal and of the radiocommunication system with which it is associated.

## CHARACTERISATION OF THE INVENTION

This invention is intended for overcoming this problem and other drawbacks in the state of the art. According to the invention, a radiocommunication system performs the allocation of a subscriber profile to a mobile terminal of a user on the basis of at least one characteristic of said mobile terminal.

The radiocommunication system employs for it information sent by the subscriber via his mobile terminal to an administrator system. In brief, a user is able to choose between various subscriber profiles defined for the mobile terminal associated therewith. Said subscriber profiles have been defined by the subscriber and stored in the administrator system.

The selection of a determined subscriber profile is carried out by the subscriber by sending a first signal to a fixed unit within the coverage area of which the mobile terminal is found.

The subscriber is able to employ the different subscriber profiles stored by the administrator system within the same coverage area, but not simultaneously.

An object of the present invention is to provide a method for managing

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a plurality of subscriber profiles on the basis of the technical characteristics of a mobile subscriber terminal.

The profiles for a subscriber are stored in an administrator means.

## **BRIEF DESCRIPTION OF THE FIGURES**

A more detailed explanation of the invention is given in the following description, based on the figures attached, in which:

- figure 1 is a block diagram of a first control means of a fixed unit and a mobile telephone terminal in a radiocommunication system according to the invention.

#### DESCRIPTION OF THE INVENTION

Referring to figure 1, a fixed unit 11-1 includes a first transmitter means, a first receiver means, and a first control means. The latter realizes, among other functions, a fixed unit controls function and a communication function with administration means 11-3 of the radiocommunication system. The administrator 11-3 is capable of storing a plurality of modes of use (subscriber profiles) defined by each user for mobile telephone terminal 11-2.

The mobile telephone terminal 11-2 includes a second transmitter means, a second receiver means, and a second control means as well. The second controller produces an output signal to first controller and receives output signals from it. The second controller maintains a mode of use and times the occurrence of an incoming administration signal in relation to the mode use. The results of requests are sent to the first control means, which in turn provides new parameters for the mode of use.

In addition, the administrator 11-3 receives requests from the second controller and informs the first controller and the second controller about the mode use requested by the user.

Thus, a subscriber is able to define various modes of use for a particular mobile telephone terminal 11-2. While the user defines the different modes of use, each one of these modes incorporates the particular functions of the mobile telephone terminal 11-2. Hence, said subscriber has available each mode of use according to his requirements.

In an embodiment, the administrator 11-3 such as a general home location register HLR of subscribers is capable of storing the different modes of use defined by each subscriber for his mobile terminal or terminals 11-2. The HLR is connected to the second controller through the first controller over radio

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